

Application No. 10/748,871
Amendment dated April 15, 2009
Reply to final Office Action of February 17, 2009

Amendments to the Claims:

Please amend claims 1 and 3 as follows. This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (Currently Amended) An image recording/reproducing apparatus which records and reproduces a plurality of still image files and sound files with respect to a recording medium and provides a display apparatus with a screen of play list indicating sound files being currently reproduced, the recording/reproducing apparatus comprising:

a decoder for decoding the still image files and the sound files recorded in the recording apparatus;

a memory for storing the still image files and the sound files as decoded; and

a main control unit for performing a process operation such that,

a display menu is displayed in a first predetermined area of the screen of play list, wherein the display menu comprises at least one instruction icon to command an alternating display supports the display apparatus such that the plurality of still image files recorded in the recording apparatus are alternately displayed as commanded, and

when the display menu is selected during the reproducing of the sound files stored in the memory, the plurality of still image files recorded in the recording apparatus are decoded and stored in the memory while the decoder is being idle, and one or more files among the stored still image files are alternately displayed as commanded on a second predetermined area of the screen of play list indicating sound files.

2. (Previously Presented) The image recording/reproducing apparatus of claim 1, wherein the main control unit further performs a process operation such that the plurality of still image files, which are recorded in the same folder as the sound files of the sound file list, are decoded when the display menu is selected.

3. (Currently Amended) A control method for an image recording/reproducing apparatus which records and reproduces a plurality of still image files and sound files with respect to a recording medium and provides a display apparatus with the files, the control method comprising the steps of:

applying a reproducing command to the recording medium with respect to the sound files;

displaying a screen of play list indicating a list of sound files, and decoding and storing the sound files;

displaying a display menu comprising at least one instruction icon to command an alternating display, in a first predetermined area of the screen of play list;

selecting the display menu such that the plurality of still image files recorded in the recording apparatus are alternately displayed as commanded while the stored sound files are reproduced;

decoding and storing the still image files recorded in the recording apparatus while the stored sound files are reproduced; and

alternately displaying the still image files as commanded on a second predetermined area of the screen of play list indicating sound files while the sound files are reproduced.

4. (Previously Presented) The control method of claim 3, further comprising the step of:

displaying a screen of period setting menu for setting a display period of the plurality of still image files when the display menu of the screen of play list is selected; and

displaying the plurality of still image files on the second predetermined area according to the set period.

5. (Previously Presented) The image recording/reproducing apparatus of claim 1, wherein the main control unit further performs a random access capable of displaying or reproducing a file selected by a user from among a plurality of image files recorded in a recording medium by quickly reading the selected file.

6. (Previously Presented) The image recording/reproducing apparatus of claim 1, wherein the main control unit further corrects a name of an image file recorded in a recording medium to allow a user to easily search for a desired file.

7. (Previously Presented) The image recording/reproducing apparatus of claim 1, wherein the main control unit further reproduces and displays a plurality of moving picture files recorded in a recording medium on a file list menu as moving pictures to allow a user to easily search for the image file recorded in the recording medium.

8. (Previously Presented) The image recording/reproducing apparatus of claim 1, wherein the main control unit further displays a list of image files recorded in a recording medium along with a plurality of icons according to a kind of image file to illustrate the kind of image file.

9. (Previously Presented) The image recording/reproducing apparatus of claim 1, wherein the main control unit further continuously reproduces a plurality of image files recorded in a recording medium in an order of storage in the recording medium.

10. (Previously Presented) The image recording/reproducing apparatus of claim 1, wherein the main control unit further edits an image file.

11. (Previously Presented) The image recording/reproducing apparatus of claim 1, wherein the main control unit further partially deletes a moving picture.

12. (Previously Presented) The image recording/reproducing apparatus of claim 1, wherein the main control unit further enables a user to recognize a folder in which a presently displayed file is located by providing a play list menu.

13. (Previously Presented) The image recording/reproducing apparatus of claim 1, wherein the main control unit further displays a ‘Play List’ of an image file recorded in a recording medium on a screen, and selects the file using the displayed ‘Play List’.

14. (Previously Presented) The image recording/reproducing apparatus of claim 1, wherein the main control unit further displays a plurality of diverse still picture files while a music file is reproduced to provide the music replay and the plurality of diverse still picture files at the same time.

15. (Previously Presented) The image recording/reproducing apparatus of claim 14, wherein the plurality of diverse still picture files are provided as a slide show.

16. (Previously Presented) The image recording/reproducing apparatus of claim 1, wherein the main control unit further automatically reproduces a plurality of files when a recording medium containing the files is inserted, independent of the kinds of files.

17. (Previously Presented) The image recording/reproducing apparatus of claim 1, wherein the main control unit further displays additional information on a music CD on a screen when reproducing the music CD to allow a user to acquire the information on the music CD and select a desired song.

18. (Previously Presented) The image recording/reproducing apparatus of claim 1, wherein the main control unit further skips and copies a plurality of files having a same file name when a plurality of files recorded in an optical recording medium are copied into a mass storage magnetic recording medium.

19. (Previously Presented) The image recording/reproducing apparatus of claim 1, wherein the main control unit further compresses and stores audio data having a CD-DA standard.

20. (Previously Presented) The image recording/reproducing apparatus of claim 1, wherein the main control unit further adaptively adjusts a size of a still picture based on a size of a predetermined display area and displays the still picture in the predetermined display area.

21. (Previously Presented) The image recording/reproducing apparatus of claim 20, wherein said displayed still picture is provided having at least one of an aspect ratio and a display size suitable to the display area.

22. (Previously Presented) The image recording/reproducing apparatus of claim 1, wherein the main control unit further provides a menu for enabling a user to easily select and manipulate functions supported by the image recording/reproducing apparatus.

23. (Previously Presented) The image recording/reproducing apparatus of claim 1, wherein the main control unit further reproduces a recorded program from a beginning, while also continuously recording an externally-received program during a time-delay viewing function.

24. (Previously Presented) The image recording/reproducing apparatus of claim 23, wherein the time-delay viewing function comprises a process operation such that an externally-received program is both recorded and reproduced at the same time.

25. (Previously Presented) The image recording/reproducing apparatus of claim 1, wherein the main control unit further automatically picks up a title name of a DVD program and records the picked-up title onto a user data area when copying the DVD program onto a HDD.

26. (Previously Presented) The image recording/reproducing apparatus of claim 1, wherein the main control unit further stores a plurality of files in an appropriate place of a divided HDD with pointers according to at least one attribute of the respective files, and discriminately displays at least one of a size of the files as stored and a remaining capacity of a memory area.

27. (Previously Presented) The image recording/reproducing apparatus of claim 1, wherein the main control unit further comprises:

a flash memory for storing relevant link information, storing icon data in a HDD, and providing at least one animation effect where icons are moved by using the icon data stored in the HDD.

28. (Previously Presented) The image recording/reproducing apparatus of claim 1, wherein the main control unit further selects files of certain folders for display in a file list and selects files of other folders and different types of recording medium for additional display in the file list.

29. (Previously Presented) The image recording/reproducing apparatus of claim 1, wherein the main control unit further performs a process to decode a plurality of still image files which are recorded in a folder in which a plurality of sound files of a sound file list are also recorded.

30. (Previously Presented) A control method for an image recording and reproducing apparatus as claimed in claim 3, further comprising:

displaying a screen of period setting menu when the display menu of the screen of play list is selected, wherein the screen of period setting menu is provided for setting a display period of the plurality of still image files.

31. (Previously Presented) A control method for an image recording and reproducing apparatus as claimed in claim 3, further comprising:

displaying the plurality of still image files on the second predetermined area according to the set period.

32. (Previously Presented) A control method for an image recording and reproducing apparatus as claimed in claim 3, further comprising:

performing a random access capable of displaying or reproducing a file selected by a user from among a plurality of image files recorded in a recording medium by quickly reading the selected file.

33. (Previously Presented) A control method for an image recording and reproducing apparatus as claimed in claim 3, further comprising:

correcting a name of an image file recorded in a recording medium to allow a user to easily search for a desired file.

34. (Previously Presented) A control method for an image recording and reproducing apparatus as claimed in claim 3, further comprising:

reproducing and displaying a plurality of moving picture files recorded in a recording medium on a file list menu as moving pictures to allow a user to easily search for the image file recorded in the recording medium.

35. (Previously Presented) A control method for an image recording and reproducing apparatus as claimed in claim 3, further comprising:

displaying a list of image files recorded in a recording medium along with a plurality of icons according to a kind of image file to illustrate the kind of image file.

36. (Previously Presented) A control method for an image recording and reproducing apparatus as claimed in claim 3, further comprising:

continuously reproducing a plurality of image files recorded in a recording medium in an order of storage in the recording medium.

37. (Previously Presented) A control method for an image recording and reproducing apparatus as claimed in claim 3, further comprising editing an image file.

38. (Previously Presented) A control method for an image recording and reproducing apparatus as claimed in claim 3, further comprising partially deleting a moving picture.

39. (Previously Presented) A control method for an image recording and reproducing apparatus as claimed in claim 3, further comprising:

enabling a user to recognize a folder in which a presently displayed file is located by providing a play list menu.

40. (Previously Presented) A control method for an image recording and reproducing apparatus as claimed in claim 3, further comprising:

displaying a ‘Play List’ of an image file recorded in a recording medium on a screen and selecting the file using the displayed ‘Play List’.

41. (Previously Presented) A control method for an image recording and reproducing apparatus as claimed in claim 3, further comprising:

displaying a plurality of diverse still picture files while a music file is reproduced to provide the music replay and the plurality of diverse still picture files at the same time.

42. (Previously Presented) A control method for an image recording and reproducing apparatus as claimed in claim 41, further comprising providing the plurality of diverse still picture files as a slide show.

43. (Previously Presented) A control method for an image recording and reproducing apparatus as claimed in claim 3, further comprising:

automatically reproducing a plurality of files when a recording medium containing the files is inserted, independent of the kinds of files.

44. (Previously Presented) A control method for an image recording and reproducing apparatus as claimed in claim 3, further comprising:

displaying additional information on a music CD on a screen when reproducing the music CD to allow a user to acquire the information on the music CD and select a desired song.

45. (Previously Presented) A control method for an image recording and reproducing apparatus as claimed in claim 3, further comprising:

skipping and copying a plurality of files having a same file name when a plurality of files recorded in an optical recording medium are copied into a mass storage magnetic recording medium.

46. (Previously Presented) A control method for an image recording and reproducing apparatus as claimed in claim 3, further comprising compressing and storing audio data having a CD-DA standard.

47. (Previously Presented) A control method for an image recording and reproducing apparatus as claimed in claim 3, further comprising:

adaptively adjusting a size of a still picture based on a size of a predetermined display area; and

displaying the still picture in the predetermined display area.

48. (Previously Presented) A control method for an image recording and reproducing apparatus as claimed in claim 47, wherein said displayed still picture is provided having at least one of an aspect ratio and a display size suitable to the display area.

49. (Previously Presented) A control method for an image recording and reproducing apparatus as claimed in claim 3, further comprising:

providing a menu for enabling a user to easily select and manipulate functions supported by the image recording/reproducing apparatus.

50. (Previously Presented) A control method for an image recording and reproducing apparatus as claimed in claim 3, further comprising:

reproducing a recorded program from a beginning, while also continuously recording an externally-received program during a time-delay viewing function.

51. (Previously Presented) A control method for an image recording and reproducing apparatus as claimed in claim 50, wherein the time-delay viewing function comprises a process operation such that an externally-received program is both recorded and reproduced at the same time.

52. (Previously Presented) A control method for an image recording and reproducing apparatus as claimed in claim 3, further comprising:

automatically picking up a title name of a DVD program; and

recording the picked-up title onto a user data area when copying the DVD program onto a HDD.

53. (Previously Presented) A control method for an image recording and reproducing apparatus as claimed in claim 3, further comprising:

storing a plurality of files in an appropriate place of a divided HDD with pointers according to at least one attribute of the respective files; and

discriminately displaying at least one of a size of the files as stored and a remaining capacity of a memory area.

54. (Previously Presented) A control method for an image recording and reproducing apparatus as claimed in claim 3, further comprising:

storing relevant link information in a flash memory;

storing icon data in a HDD; and

providing at least one animation effect where icons are moved by using the icon data stored in the HDD.

55. (Previously Presented) A control method for an image recording and reproducing apparatus as claimed in claim 3, further comprising:

selecting files of certain folders for display in a file list; and

selecting files of other folders and different types of recording medium for additional display in the file list.

56. (Previously Presented) A control method for an image recording and reproducing apparatus as claimed in claim 3, further comprising:

performing a process to decode a plurality of still image files which are recorded in a folder in which a plurality of sound files of a sound file list are also recorded when the display menu is selected.

57. (Withdrawn) An image recording and reproducing apparatus for recording, reproducing and editing a plurality of image files recorded in a recording medium, the apparatus comprising:

a main control unit having a central processing unit and a MPEG encoder for receiving at least one of a digital, audio, and instruction signal for the recording, reproducing and editing of said signals as image files;

an input/output terminal unit electrically coupled to said main control unit to receive at least one a digital and audio signal via a received channel, said input/output terminal unit having a plurality of terminals;

a tuner electrically coupled to said input/output terminal unit to adjust at least one received channel as directed by said main control unit;

an input/output control unit and switching unit electrically coupled to said input/output terminal unit to control which of said terminals of said input/output terminal unit is selected;

an MPEG encoder electrically coupled to said main control unit to encode at least one of an audio signal and a video signal;

a video decoder electrically coupled to said input/output terminal unit to decode and output a video signal to said MPEG encoder;

a video encoder electrically coupled to said input/output terminal unit to encode and output a video signal to said input/output terminal unit;

an audio analog-to-digital (A/D) converter electrically coupled to said switching unit to convert and output a digital audio signal to said MPEG encoder;

an audio digital-to-analog (D/A) converter electrically coupled to said switching unit to convert and output a digital audio signal to said switching unit;

a data management unit electrically coupled to said MPEG encoder to manage at least one of a replay and recording operation as directed by said main control unit;

a HDD mass storage device electrically coupled to said data management unit for receiving and storing data;

a disc player electrically coupled to said HDD mass storage unit via said data management unit to perform at least one of a recording and reproducing operation;

a flash memory electrically coupled to said main control unit, said flash memory comprising a graphic user interface storage unit to store a plurality of operations for use by said main control unit.

a light-receiving unit electrically coupled to said main control unit to receive at least one manipulation signal;

a first SDRAM electrically coupled to said MPEG encoder to provide a memory for use during an encoding operation; and

a second SDRAM electrically coupled to said main control unit to provide a temporary storage memory.

58. (Withdrawn) An image recording and reproducing apparatus for recording, reproducing and editing a plurality of image files as claimed in claim 57, wherein said input/output terminal unit comprises:

at least one of a super-video input terminal, super-video output terminal, RF input terminal, RF output terminal, line video/audio input terminal, line video/audio output terminal, and a digital audio output terminal.

59. (Withdrawn) An image recording and reproducing apparatus for recording, reproducing and editing a plurality of image files as claimed in claim 57, further comprising:

a display menu signal output such that a plurality of recorded still image files are alternately displayed in a first predetermined area of a screen of play list upon a display device; and

a display menu signal output such that when said display menu is selected during a reproduction of a stored sound file, said plurality of recorded still image files are decoded and stored while the decoder is in an idle state, and one or more files among said stored image files are alternately displayed on a second predetermined area of said screen of play list upon said display device.

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60. (Withdrawn) An image recording and reproducing apparatus for recording, reproducing and editing a plurality of image files as claimed in claim 59, further comprising:
a signal output displaying a file selected by a user via said display menu for at least one of a reproducing, editing and deletion operation.